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09/09/2004

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Georgann S. Grunebach Reg. No. (Depositor's name)  
33,179 (Signal)  
September 30, 2004 (Date)

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/644,224      | 08/21/2000  | Donald C. D. Chang   | PD-200085           | 9954             |

TITLE OF INVENTION: STRATOSPHERIC-BASED COMMUNICATION SYSTEM FOR MOBILE USERS HAVING ADAPTIVE INTERFERENCE REJECTION

| APPLN. TYPE      | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE   |
|------------------|--------------|-----------|-----------------|------------------|------------|
| nonprovisional   | NO           | \$1330    | \$0             | \$1330           | 12/09/2004 |
| EXAMINER         |              | ART UNIT  | CLASS-SUBCLASS  |                  |            |
| TORRES, MARCOS L |              | 2683      | 455-013200      |                  |            |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. Georgann S. Grunebach

2. John A. Crook III

3. \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

THE DIRECTV GROUP, INC.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

El Segundo, California USA

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

☒ Issue Fee☐ Publication Fee (No small entity discount permitted)☐ Advance Order - # of Copies \_\_\_\_\_

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☐ A check in the amount of the fee(s) is enclosed.☐ Payment by credit card. Form PTO-2038 is attached.☒ The Director is hereby authorized to charge the required fee(s), or credit any overpayment Deposit Account Number 50-0383 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

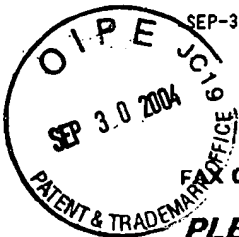
Typed or printed name: Georgann S. Grunebach

Date: September 30, 2004

Registration No. 33,179

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Date: September 30, 2004

Certificate of Transmission

From: Georgann S. Grunebach  
Assistant General Counsel

Fax: (310) 964-0941  
Phone: (310) 964-4615

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Georgann S. Grunebach September 30, 2004  
(Name of Applicant, Assignee or Registered Representative) (Date of Facsimile Transmission)

Please find attached Re: Serial No.: 09/644,224

Filed: August 21, 2000

Inventor: Donald C.D. Chang, et al.

For: STRATOSPHERIC-BASED COMMUNICATION SYSTEM FOR MOBILE USERS HAVING ADAPTIVE INTERFERENCE REJECTION

Examiner: Marcos L. Torres (703) 305-1478 - Group Art Unit: 2683 - Confirmation No.: 9954

Attorney Docket No.: PD-200085

PTO Date of Mailing of Notice of Allowance and Fee(s) Due: September 9, 2004

Transmitted herewith, for the above-identified patent application, is the Issue Fee Transmittal Form (with authorization to charge the Issue Fee of \$1330.00 to Deposit Account No. 50-0383 of Hughes Electronics Corporation), in duplicate for charge purposes, via facsimile with certificate of facsimile transmission, pursuant to 37 CFR 1.8. Please charge the Issue Fee and any other required fee for this application and credit any overpayment to the Hughes Deposit Account No. 50-0383.

Georgann S. Grunebach  
Georgann S. Grunebach, Registration No. 33,179

If you do not receive all pages, or pages are not clear, please call Karen Lum at (310) 964-0735.

Typed or printed name Georgann S. GrunebachRegistration No. 33,179

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